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Attorney's Docket No.: 18202-020001/1088

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Number of pages including this page 11

Applicant : Lin Zhi et al.

Art Unit : 1625

Serial No. : 10/684,229

Examiner : Charanjit Aulakh

Filed : October 10, 2003

Patent No. : 7,071,205

Cust. No. : 20985

Issue Date : July 4, 2006

Title : 5-Cycloalkenyl 5H-Chromeno[3,4-f]Quinoline Derivatives as Selective
Progesterone Receptor Modulator Compounds

Ms. Michelle Williams

Certificate of Corrections Branch

P.O. Box 1450

Alexandria, VA 22313-1450

Dear Ms. Williams:

Further to our telephone conversation on 8 February 2007, a hand-corrected version of the Certificate of Correction for the above captioned patent is attached. Please note the errors introduced by the PTO on the following pages:

On page 1, in the definition of R^1 , please replace " CO_2R^{11} , CO_2R^{11} " with $-COR^{11}$, CO_2R^{11} —

On page 8, in compound 73, please replace "cyclopentenyl" with —cyclopentenyl—

On page 9, in compound 85, please replace "difluoro" with —difluoro—

On page 9, in compound 87, please replace "cyclohexyl" with —cyclohexyl—

Patentee respectfully requests correction of these errors.

Respectfully submitted,

Date: February 8, 2007


Nathanael R. Luman

Scientific Advisor to
Stephanie Scidman
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UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 7,071,205 B2
 APPLICATION NO. : 10/684229
 DATED : July 4, 2006
 INVENTOR(S) : Lin Zhi et al.

Page 1 of 10

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

IN THE TITLE PAGES:

In Item [56] References Cited, in U.S. PATENT DOCUMENTS:

please add the following reference: --6,001,846 A 12/1999 Edwards et al. 514/285--
 in 6,566,358 please replace "Zhi et al." with --Zhang et al.--
 in 6,566,372 please replace "West et al." with --Zhi et al.--

In Item [56] References Cited, in OTHER PUBLICATIONS:

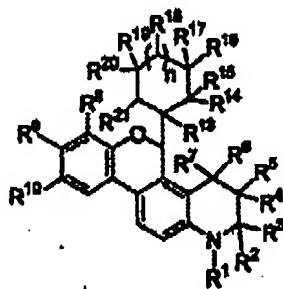
in Hamann et al., please replace "dihyrdo" with --dihydro--

At column 8, Table A, row R¹, please replace "C₁-C haloalkyl" with --C₁-C₄ haloalkyl--
 at column 9, Table A, row R⁹, please replace "CONR¹¹R¹²" with --CONR¹¹R¹²--
 at column 11, Table A, below row R¹⁶, please replace "R¹⁵" with --R¹⁶--

Please replace Claims 12, 13, 14, and 15 with the following Claims:

Col. 40

12. A compound of the formula:



(I)

wherein:

- R¹ is selected from the group of hydrogen, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₁-C₄ heteroalkyl, CO₂R¹¹, CO₂R¹¹, SO₂R¹¹, and CONR¹¹R¹²;
- R² and R³ each independently is selected from the group of hydrogen, C₁-C₆ alkyl, and C₁-C₆ haloalkyl; or
- R² and R³ taken together form a cycloalkyl ring of from three to twelve carbons;
- R⁴ through R⁷ each independently is selected from the group of hydrogen, F, Cl, Br, CN, OR¹¹, C₁-C₄ alkyl, C₁-C₄ haloalkyl, and C₁-C₄ heteroalkyl; or
- R⁵ and R⁷ taken together form a bond; or
- R⁶ and R⁷ taken together are selected from the group of methyldene, mono-substituted methyldene, di-substituted methyldene and carbonyl;

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

R^8 through R^{10} each independently is selected from the group of hydrogen, F, Cl, Br, I, NO_2 , CN, OR^{11} , $\text{NR}^{11}\text{R}^{12}$, SR^{11} , COR^{11} , CO_2R^{11} , $\text{CONR}^{11}\text{R}^{12}$, $\text{C}_1\text{--C}_8$ alkyl, $\text{C}_1\text{--C}_8$ heteroalkyl, $\text{C}_1\text{--C}_8$ haloalkyl, allyl, $\text{C}_2\text{--C}_8$ alkenyl and $\text{C}_2\text{--C}_8$ alkynyl;

R^{11} and R^{12} each is independently selected from the group of hydrogen, $\text{C}_1\text{--C}_4$ alkyl, $\text{C}_1\text{--C}_4$ heteroalkyl, and $\text{C}_1\text{--C}_4$ haloalkyl;

R^{13} is hydrogen;

R^{14} and R^{16} taken together form a bond or "—O—" bridge;

R^{15} , R^{17} , R^{18} , R^{19} , R^{20} each independently is selected from the group of hydrogen, F, Cl, $\text{C}_1\text{--C}_4$ alkyl, and $\text{C}_1\text{--C}_4$ haloalkyl;

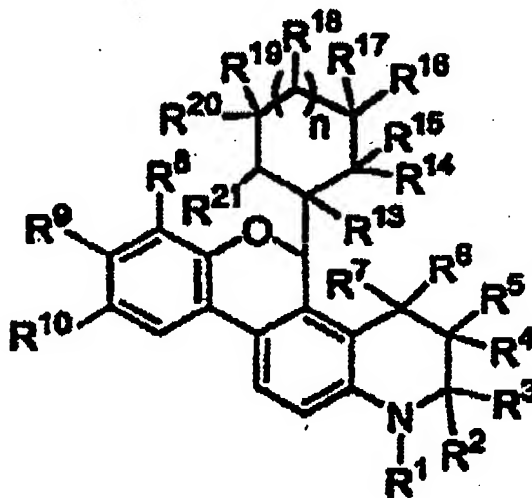
R^{21} is hydrogen; and

n is 0, 1, 2, or 3;

or a pharmaceutically acceptable salt thereof.

Col. 41

13. A compound of the formula:



(I)

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

wherein:

R¹ is selected from the group of hydrogen, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₁-C₄ heteroalkyl, COR¹¹, CO₂R¹¹, SO₂R¹¹, and CONR¹¹R¹²;

R² and R³ each independently is selected from the group of hydrogen, C₁-C₆ alkyl, and C₁-C₆ haloalkyl; or

R² and R³ taken together form a cycloalkyl ring of from three to twelve carbons;

R⁴ through R⁷ each independently is selected from the group of hydrogen, F, Cl, Br, CN, OR¹¹, C₁-C₄ alkyl, C₁-C₄ haloalkyl, and C₁-C₄ heteroalkyl; or

R⁵ and R⁷ taken together form a bond; or

R⁶ and R⁷ taken together are selected from the group of methyldiene, mono-substituted methyldiene, di-substituted methyldiene and carbonyl;

R⁸ through R¹⁰ each independently is selected from the group of hydrogen, F, Cl, Br, I, NO₂, CN, OR¹¹, NR¹¹R¹², SR¹¹, COR¹¹, CO₂R¹¹, CONR¹¹R¹², C₁-C₈ alkyl, C₁-C₈ heteroalkyl, C₁-C₈ haloalkyl, allyl, C₂-C₈ alkenyl and C₂-C₈ alkynyl;

R¹¹ and R¹² each is independently selected from the group of hydrogen, C₁-C₄ alkyl, C₁-C₄ heteroalkyl, and C₁-C₄ haloalkyl;

R¹³ is hydrogen;

R¹⁴, R¹⁵, R¹⁸, R¹⁹, R²⁰ each independently is selected from the group of hydrogen, F, Cl, C₁-C₄ alkyl, and C₁-C₄ haloalkyl;

R¹⁶ and R¹⁷ taken together are selected from the group of methyldiene, mono-substituted methyldiene, and di-substituted methyldiene;

R²¹ is hydrogen; or

R²¹ and R²⁰ taken together form a bond;

n is 0, 1, 2, or 3;

or a pharmaceutically acceptable salt thereof.

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CERTIFICATE OF CORRECTION

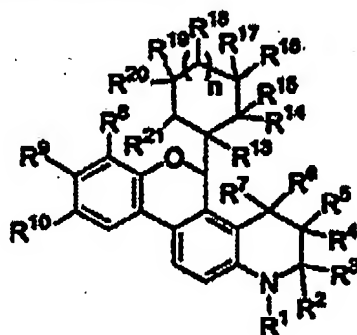
PATENT NO. : 7,071,205 B2
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 INVENTOR(S) : Lin Zhi et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 42

14. A compound of the formula:



(I)

wherein:

- R¹ is selected from the group of hydrogen, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₁-C₄ heteroalkyl, COR¹¹, CO₂R¹¹, SO₂R¹¹, and CONR¹¹R¹²;
- R² and R³ each independently is selected from the group of hydrogen, C₁-C₆ alkyl, and C₁-C₆ haloalkyl; or
- R² and R³ taken together form a cycloalkyl ring of from three to twelve carbons;
- R⁴ through R⁷ each independently is selected from the group of hydrogen, F, Cl, Br, CN, OR¹¹, C₁-C₄ alkyl, C₁-C₄ haloalkyl, and C₁-C₄ heteroalkyl; or
- R⁵ and R⁷ taken together form a bond; or
- R⁶ and R⁷ taken together are selected from the group of methylenedene, mono-substituted methylenedene, di-substituted methylenedene and carbonyl;
- R⁸ through R¹⁰ each independently is selected from the group of hydrogen, F, Cl, Br, I, NO₂, CN, OR¹¹, NR¹¹R¹², SR¹¹, COR¹¹, CO₂R¹¹, CONR¹¹R¹², C₁-C₈ alkyl, C₁-C₈ heteroalkyl, C₁-C₈ haloalkyl, allyl, C₂-C₈ alkenyl and C₂-C₈ alkynyl;

UNITED STATES PATENT AND TRADEMARK OFFICE
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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

R¹¹ and R¹² each is independently selected from the group of hydrogen, C₁-C₄ alkyl, C₁-C₄ heteroalkyl, and C₁-C₄ haloalkyl;
R¹³ is hydrogen;
R¹⁴, R¹⁵, R¹⁷, R²⁰ each independently is selected from the group of hydrogen, F, Cl, C₁-C₄ alkyl, and C₁-C₄ haloalkyl;
R¹⁶ and R¹⁸ taken together form a bond when n is 1;
R¹⁶ and R¹⁹ taken together form a bond when n is 0;
R²¹ is hydrogen; and
n is 0, 1, 2, or 3;
or a pharmaceutically acceptable salt thereof.

Col. 42-45

15. A Compound selected from the group of:

(±)-(51,1'1)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 24);
(±)-(51,1'u)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 25);
(+)-(51,1'l)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 27);
(-)-(51,1'l)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 28);
(±)-(51,1'1)-5-(3-methyl-2-cyclohexenyl)-9-hydroxy-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 29);

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

- (±)-(51,1'u)-5-(3-methyl-2-cyclohexenyl)-9-hydroxy-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 30);
- (+)-(51,1'1)-5-(3-methyl-2-cyclohexenyl)-9-hydroxy-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 32);
- (-)-(51,1'1)-5-(3-methyl-2-cyclohexenyl)-9-hydroxy-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 33);
- (±)-(51,1'1)-5-(3-methyl-2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 34);
- (±)-(51,1'u)-5-(3-methyl-2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 35);
- (+)-(51,1'1)-5-(3-methyl-2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 37);
- (-)-(51,1'1)-5-(3-methyl-2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 38);
- (±)-(51,1'1)-5-(3-methyl-2-cyclohexenyl)-9-methoxy-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 39);
- (±)-(51,1'1)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2-dimethyl-5H-chromeno[3,4-f]quinoline (compound 41);
- (±)-(51,1'u)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2-dimethyl-5H-chromeno[3,4-f]quinoline (compound 42);
- (±)-(51,1'1)-5-(3-methyl-2-cyclopentenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 44);
- (±)-(51,1'u)-5-(3-methyl-2-cyclopentenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 45);

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

- (±)-(51,1'1)-5-(3,5,5-trimethyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 47);
- (±)-(51,1'u)-5-(3,5,5-trimethyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 48);
- (±)-(51,1'1)-5-(3-methyl-2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 50);
- (±)-(51,1'u)-5-(3-methyl-2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 51);
- (±)-5-(3-methyl-3-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 52);
- (±)-5-(2-cyclopenta-1,3-dienyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 53);
- (±)-(51,1'1)-5-(3-ethyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 55);
- (±)-(51,1'u)-5-(3-ethyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 56);
- (±)-(51,1'1)-5-(3-methyl-2-cyclohexenyl)-7-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 58);
- (±)-(51,1'u)-5-(3-methyl-2-cyclohexenyl)-7-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 59);
- (±)-(51,1'1)-5-(3-ethyl-2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 61);
- (±)-(51,1'1)-5-(3-ethylidenecyclohexyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 62);

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- (±)-(51,1'1)-5-(3-methyl-3-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 63);
(±)-(51,1'1)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-8-methoxy-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 64);
(±)-(51,1'u)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-8-methoxy-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 65);
(±)-(51,1'1)-5-(2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 67);
(±)-(51,1'u)-5-(2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 68);
(±)-5-(1-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 69);
(±)-(51,1'1)-5-(2,3-dimethyl-2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 71); ~~cyclopentenyl~~
(+)-(51,1'1)-5-(2,3-dimethyl-2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 73);
(-)-(51,1'1)-5-(2,3-dimethyl-2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 74);
(±)-(51,1'1)-5-(2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 75);
(±)-(51,1'u)-5-(2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 76);
(±)-(51,1'1)-5-(2-cyclohexenyl)-7,9-difluoro-1,2,3,4-tetrahydro-2,2-dimethyl-4-methylidene-5H-chromeno[3,4-f]quinoline (compound 77);

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- (±)-(51,1'1)-5-(2-methylidenecyclohexyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 79);
(±)-(51,1'u)-5-(2-methylidenecyclohexyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 80);
(±)-(51,1'1)-5-(2-oxocyclohexyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 81);
(±)-(51,1'u)-5-(2-oxocyclohexyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 82);
(±)-(51,1'1)-5-(3-methyl-2-cyclohexenyl)-9-methoxy-1,2-dihydro-1,2,2,4-tetramethyl-5H-chromeno[3,4-f]quinoline (compound 83);
(±)-5-(2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 84);
(±)-(51,1'1)-5-(2,3-dimethyl-2-cyclohexenyl)-7,9-~~di~~^{di}fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 85);
(±)-5-(3-methylidene~~cyclohexyl~~)-7,9-~~di~~^{di}fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 87); ~~cyclohexyl~~
(±)-(51,1'u)-5-(3-ethylidenecyclohexyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 88);
(±)-(51,1'1)-5-(2-cycloheptenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (Compound 89);
(±)-(51,1'1)-5-(2-cyclooctenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (Compound 91);
(±)-(51,1'u)-5-(2-cyclooctenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (Compound 92);

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(±)-(51,1'1)-5-(2,3-epoxy-3-methylcyclohexyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (Compound 94);
(±)-(51,1'1)-5-(3-methyl-2-cyclohexenyl)-7,9-difluoro-1,2,3,4-tetrahydro-2,2-dimethyl-4-methylene-5H-chromeno[3,4-f]quinolin-3-ol (Compound 95);
(±)-(51,1'1)-5-(2,3-epoxy-2,3-dimethylcyclopentyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (Compound 96);
(±)-(51,1'u)-5-(2,3-epoxy-3-methylcyclohexyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (Compound 97); and
(±)-(51,1'1)-5-(3-methyl-2-cyclohexenyl)-7,9-difluoro-1,2,3,4-tetrahydro-2,2-dimethyl-5H-chromeno[3,4-f]quinolin-4-one (Compound 98).

Signed and Sealed this

Twenty-eighth Day of November, 2006



JON W. DUDAS
Director of the United States Patent and Trademark Office

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